

-1- (JAPIO)  
ACCESSION NUMBER 85-146456  
TITLE ZINC ALKALINE BATTERY  
PATENT APPLICANT (2000582) MATSUSHITA ELECTRIC IND CO LTD  
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KANJI  
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JAPIO CLASS 42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy  
Heat Treating); 12.3 (METALS--Alloys)  
R057 (FIBERS--Non-woven Fabrics)  
FIXED KEYWORD CLASS  
ABSTRACT  
PURPOSE: To obtain a high-capacity zinc alkaline  
battery containing only a small amount of mercury by  
using as the negative active material a powder  
prepared by amalgamating an alloy principally  
composed of zinc and containing Ga and Tl.  
CONSTITUTION: A powder prepared by amalgamating an  
alloy (Zn-Ga-Tl) powder principally composed of Zn  
and containing Ga and Tl, is used as an active  
material for a negative electrode 5. It is preferable  
that the above powder be prepared by performing  
amalgamation by a wet method by dropping Hg into KOH  
solution of 30% concentration containing the alloy  
powder while stirring it to coat the surfaces of the  
alloy particles with Hg, followed by washing the  
amalgamated powder with water before drying the  
powder.